

ABSTRACT

The instant invention provides a novel and useful gauge-based sound pressure instrument that is mountable within preexisting pod, cup and panel gauge mounts, thereby allowing a vehicle owner to customize a vehicle for multiple uses. The sound pressure instrument receives a sound pressure wave through a microphone mounted at about the drivers' ear level and processes the resultant electrical signals through a signal processing means into groups of digital pulses. The digital pulses are displayed on an analog and/or digital display in real time. Associated with the signal processing means is a monitoring means which indicates when the received sound pressure waves are above predetermined levels. Associated with both of these means is an peak storage means which monitors each group of digital pulses and also any signals provided by the monitoring means. Utilizing these, the peak storage means stores the highest achieved sound pressure level in each group of digital pulses which may be recalled at a later time.

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